

I. Amendments to the Claims

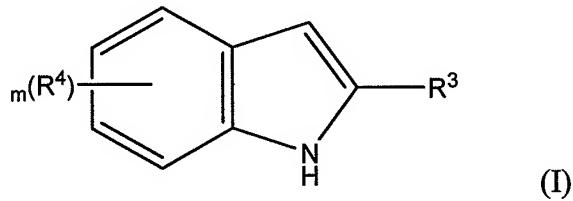
This listing of claims replaces without prejudice all prior versions and listings of claims in the application.

Listing of the Claims:

1.-15. (Cancelled).

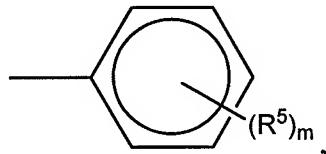
16. (New) A stabilizer system for stabilizing halogen-containing polymers against thermal degradation, the stabilizer system comprising:

- (a) at least one perfluoroalkanesulphonate salt; and
- (b) at least one indole wherein the indole has the general formula (I)



wherein m is 0, 1, 2 or 3;

R³ is C₁-C₁₈ alkyl, C₂-C₁₈ alkenyl, phenyl,



C₇-C₂₄ alkylphenyl, C₇-C₁₀ phenylalkyl or C₁-C₄ alkoxy;

R⁴ and R⁵ are H, C₁-C₄ alkyl, or C₁-C₄ alkoxy.

17. (New) The stabilizer system of claim 16, wherein the perfluoroalkanesulfonate salt is a salt of a metal selected from the group consisting of Li, Na, K, Mg, Ca, Sr, Ba, Sn, Zn, Al, La and Ce.

18. (New) The stabilizer system of claim 17, wherein the perfluoroalkanesulfonate salt is sodium triflate or potassium triflate.

19. (New) The stabilizer system of claim 16, wherein R³ is phenyl.

20. (New) The stabilizer system of claim 16, wherein the indole is selected from the group consisting of 2-phenylindole and 2-phenyllaurylindole.

21. (New) The stabilizer system of claim 16, wherein the indole is present in an amount of from about 0.01 to about 10 parts by weight, based on the weight of the halogen-containing polymer and the perfluoroalkanesulfonate salt is present in an amount of from about 0.001 to about 5 parts by weight, based on the weight of the halogen-containing polymer.

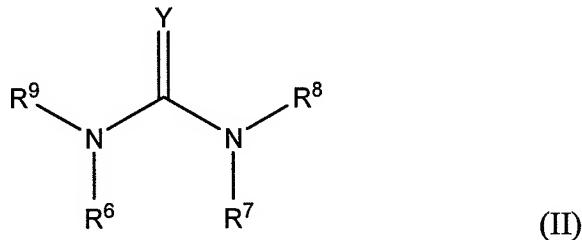
22. (New) The stabilizer system of claim 16, further comprising metal soaps, polyols, disaccharide alcohols, glycidyl compounds, hydrotalcites, alkali metal/alkaline earth metal aluminosilicates, alkali metal/alkaline earth metal hydroxides, alkaline earth metal oxides, alkaline earth metal (hydrogen) carbonates, alkali metal (alkaline earth metal) hydroxycarboxylates or carboxylates, phosphates, plasticizers, antioxidants, fillers, pigments, light stabilizers, lubricants, epoxidized fatty esters and mixtures thereof.

23. (New) A halogen-containing polymer comprising the stabilizer system of claim 16.

24. (New) A process for stabilizing a chlorine-containing polymer against thermal degradation, the process comprising adding the stabilizer system according to claim 16 to the chlorine-containing polymer.

25. (New) A stabilizer system for stabilizing halogen-containing polymers against thermal degradation, the stabilizer system comprising:

- at least one perfluoroalkanesulphonate salt; and
- at least one urea wherein the urea has the general formula (II)



wherein Y is S or NH

R^6 , R^7 , R^8 and R^9 , independently of one another, are H, C₁-C₁₈ alkyl optionally substituted with hydroxyl groups and/or C₁-C₄ alkoxy groups, C₂-C₁₈ alkenyl, phenyl optionally substituted with up to 3 hydroxy and/or C₁-C₄ alkyl/alkoxy groups, C₇-C₂₀ alkylphenyl or C₇-C₁₀ phenylalkyl; and 2-substituents selected from R^6 to R^9 may also form a ring, or a dimerized or trimerized urea thereof, and reaction products thereof.

26. (New) The stabilizer system of claim 25, wherein the perfluoroalkanesulfonate salt is a salt of a metal selected from the group consisting of Li, Na, K, Mg, Ca, Sr, Ba, Sn, Zn, Al, La and Ce.

27. (New) The stabilizer system of claim 26, wherein the perfluoroalkanesulfonate salt is sodium triflate or potassium triflate.

28. (New) The stabilizer system of claim 25, wherein R^6 , R^7 , R^8 and R^9 independently are phenyl or H.

29. (New) The stabilizer system of claim 25, wherein the urea is selected from the group consisting of N,N'-diphenylthiourea, N-phenylurea, trishydroxyethyl and trishydroxypropyl isocyanurate.

30. (New) The stabilizer system of claim 25, wherein the urea is present in an amount of from about 0.01 to about 10 parts by weight, based on the weight of the halogen-containing polymer and the perfluoroalkanesulfonate salt is present in an amount of from about 0.001 to about 5 parts by weight, based on the weight of the halogen-containing polymer.

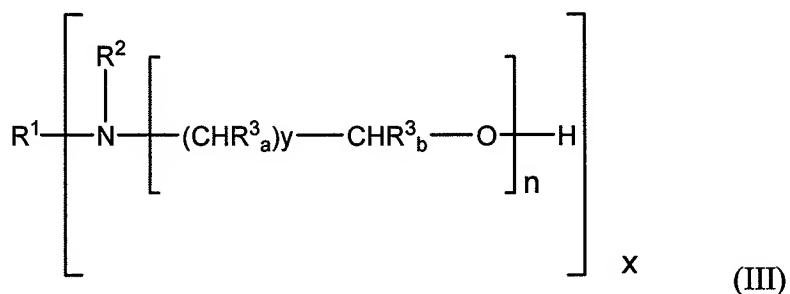
31. (New) The stabilizer system of claim 25, further comprising metal soaps, polyols, disaccharide alcohols, glycidyl compounds, hydrotalcites, alkali metal/alkaline earth metal aluminosilicates, alkali metal/alkaline earth metal hydroxides, alkaline earth metal oxides, alkaline earth metal (hydrogen) carbonates, alkali metal (alkaline earth metal) hydroxycarboxylates or carboxylates, phosphates, plasticizers, antioxidants, fillers, pigments, light stabilizers, lubricants, epoxidized fatty esters and mixtures thereof.

32. (New) A halogen-containing polymer comprising the stabilizer system of claim 25.

33. (New) A process for stabilizing a chlorine-containing polymer against thermal degradation, the process comprising adding the stabilizer system according to claim 25 to the chlorine-containing polymer.

34. (New) A stabilizer system for stabilizing halogen-containing polymers against thermal degradation, the stabilizer system comprising:

- (a) at least one perfluoroalkanesulphonate salt; and
- (b) at least one alkanolamines wherein the alkanolamine has the general formula (III)



wherein x is 1, 2, or 3;

y is 1-6;

n is 1-10;

R¹ and R² independently of one another are H, C₁-C₂₂ alkyl, $[-(CHR^{3_a})_y-CHR^{3_b}-O-]_n-H$, $[-(CHR^{3_a})_y-CHR^{3_b}-O-]_n-CO-R^4$, C₂-C₂₀ alkenyl, C₂-C₁₈ acyl, C₄-C₈ cycloalkyl, which may have OH substitution in the β -position, phenyl, C₇-C₁₀ alkylphenyl or C₇-C₁₀ phenylalkyl, or if x=1, R¹ and R² may also form, together with the N atom to which each is bonded, a closed 4-10 membered ring of carbon atoms optionally containing up to 2 heteroatoms, or if x=2, R¹ may be C₂-C₁₈ alkylene which may have OH substitution at the two β -carbon atoms and/or may have interruption by one or more O atoms and/or by one or more NR₂ groups, dihydroxy-substituted tetrahydronyclopentadienylene, dihydroxy substituted ethylcyclohexanylene, dihydroxy-substituted 4,4'-(bisphenol-A-dipropyl ether)ylene, isophoronylene, dimethylcyclohexanylene, dicyclohexylmethanylene or 3,3'-dimethyldicyclohexylmethanylene, or if x=3, R¹ may be a trihydroxy-substituted (tri-N-propyl isocyanurate)triy; R³_a and R³_b independently of one another are C₁-C₂₂ alkyl, C₂-C₆ alkenyl, phenyl, C₆-C₁₀ alkylphenyl, H or CH₂-X-R⁵, wherein X is O, S, -O-CO- or -CO-O-;

R⁴ is C₁-C₁₈ alkyl, alkenyl or phenyl; and

R⁵ is H, C₁-C₂₂ alkyl, C₂-C₂₂ alkenyl, phenyl or C₆-C₁₀ alkylphenyl.

35. (New) The stabilizer system of claim 34, further comprising a phosphorous-containing stabilizer.

36. (New) The stabilizer system of claim 32, wherein the perfluoroalkanesulfonate salt is a salt of a metal selected from the group consisting of Li, Na, K, Mg, Ca, Sr, Ba, Sn, Zn, Al, La and Ce.

37. (New) The stabilizer system of claim 35, wherein the perfluoroalkanesulfonate salt is sodium triflate or potassium triflate.

38. (New) The stabilizer system of claim 34, wherein n is 1 and y is 2 or 3.

39. (New) The stabilizer system of claim 34, wherein the alkanolamines are reaction products of NH₃, or reaction products of primary or secondary amines, with ethane oxide, propene oxide, butane oxide or (thiol)glycidyl ethers or are reaction products of (thio)glycidyl ethers with alkanolamines.

40. (New) The stabilizer system of claim 34, wherein the alkanolamine is present in an amount of from about 0.01 to about 10 parts by weight, based on the weight of the halogen-containing polymer and the perfluoroalkanesulfonate salt is present in an amount of from about 0.001 to about 5 parts by weight, based on the weight of the halogen-containing polymer.

41. (New) The stabilizer system of claim 34, further comprising metal soaps, polyols, disaccharide alcohols, glycidyl compounds, hydrotalcites, alkali metal/alkaline earth metal aluminosilicates, alkali metal/alkaline earth metal hydroxides, alkaline earth metal oxides, alkaline earth metal (hydrogen) carbonates, alkali metal (alkaline earth metal) hydroxycarboxylates or carboxylates, phosphates, plasticizers, antioxidants, fillers, pigments, light stabilizers, lubricants, epoxidized fatty esters and mixtures thereof.

42. (New) A halogen-containing polymer comprising the stabilizer system of claim 34.

43. (New) A process for stabilizing a chlorine-containing polymer against thermal degradation, the process comprising adding the stabilizer system according to claim 34 to the chlorine-containing polymer.